PATENT COOPERATION TREATY



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 532512001440	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2005/004858	International filing date (day/month/year) 10 February 2005 (10.02.2005)	Priority date (day/month/year) 10 February 2004 (10.02.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant BARNES-JEWISH HOSPITAL				

	•				
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I Basis of the report				
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 14 August 2006 (14.08.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		ombettes	Authorized officer Dorothée Mülhausen		
Facsimile No. +41 22 338 82 70			e-mail: pt01@wipo.int		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
KATE H. MURASHIGE
MORRISON & FOERSTER LLP
3811 VALLEY CENTRE DRIVE, SUITE 500
SAN DIEGO, CA 92130-2332

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

·				INTERMITTORAL SEARCHING ACTROXITY			
				(PCT Rule 43 <i>bis</i> .1)			
				Date of mailing			
Applicant	'g or agent's file i	reference		(day/month/year)	22 SEP 2005		
Applicant's or agent's file reference 532512001440				FOR FURTHER ACTION See paragraph 2 below			
International application No. International filing date			International filing date	(day/month/year) Priority date (day/month/year)			
PCT/US0	5/04858		10 February 2005 (10.02	.2005)	10 February 2004 (10.02.2004)		
Internatio	nal Patent Classif	ication (IPC)	or both national classification	on and IPC			
IPC(7): A	61K 9/127, 14 an	d US Cl.: 424/	450, 1.21, 9.321, 9.51, 48	9			
Applicant							
BARNER	-JEWISH HOSPI	TAL					
1. This	opinion contains i	indications rela	ating to the following item	s:			
\boxtimes	Box No. I	Basis of the	opinion				
	Вох №. П	Priority			,		
	Box No. III	Non-establis	shment of opinion with reg	gard to novelty, inven	tive step and industrial applicability		
· 🔲	Box No. IV	Lack of unit	y of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
	Box No. VII	Certain defe	cts in the international app	lication .			
	Box No. VIII	Certain obse	rvations on the internation	al application			
2. FUR	THER ACTIO	N		:			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Burcau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Name and	mailing address o	f the ISA/ US		Authorized officer	Marie 2, 150		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents				Gollamudi S. Kish	ore, Ph.D 2 / Walson		
P.O. Box 1450				To a transition of the state of			
Alexandria, Virginia 22313-1450				Telephone No. 703 308 1234			

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application]	بر ٠٥٠
PCT/US05/04858	-

	Box N	No. I Basis of this opinion					
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	1. With was f	regard to the language, this opinion has been established on the basis of the international application in the language in which it iled, unless otherwise indicated under this item.					
		This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
ļ	a.	type of material					
		a sequence listing					
		table(s) related to the sequence listing					
	b.	format of material					
ı		in written format					
		in computer readable form					
1	c.	time of filing/furnishing					
1		contained in international application as filed.					
1		filed together with the international application in computer readable form.					
٠		furnished subsequently to this Authority for the purposes of search.					
ı							
١	3. 🔲	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed.					
I		or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
	4. Additi	itional comments:					
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F	orm PCT	/ISA/237(Box No. I) (January 2004)					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/04858

III I I I I I I I I I I I I I I I I I					
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement		•			
Novelty (N)	Claims	1-31	·····		YES
	Claims	NONE			NO
Inventive step (IS)	Claims	NONE			YES
• ` ` .	Claims	1-31			NO
Industrial applicability (IA)	Claims	1-31			YES
madala approximo (a s)		NONE			NO
Claims 1-31 lack an inventive step under PCT Artic (5,023,087). SZOKA teaches a drug delivery system of delivery vehicles taught are liposomes, micelles and radioisotope, MRI imaging agent or ultrasound control is the teachings of the administration of empty liposomes YAU-YOUNG while disclosing liposomes half-life of the liposomes containing the active agen. The administration of empty liposomes all have been obvious to one of ordinary skill in the art YOUNG. Although SZOKA does not teach other liput attachment would have been obvious since anti-bod the art. Claims 1-31 meet the criteria set out in PCT Article be made or used in industry.	f a delivery vehi i others. The lipt trast agent (abstract, somes in additional delivery systemat (abstract, exant long with the lipt since such an in gands such as an by attachment to	icle having hyalur osomes further co ract, columns 3-5, ms teaches that ad aples and claims). osomes containing aclusion increases a antibody attache the surface of the	on ligand with an ntain a therapeuti Examples and el ministration of et g a therapeutic ag the half-life of the to the surface o liposomes for tar	affinity for CD44 ric or diagnostic ageraims). What is lackingly liposomes incompty liposomes incompt affect agent or diagnostic agent as tar of the liposomes, sucreeted delivery is we	eceptors. The at. Such as ang in SZOKA reases the ent would aght by YAU- h an ell known in
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